

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number
WO 2005/090413 A1

(51) International Patent Classification⁷: C08F 2/18, 291/00

(21) International Application Number:
PCT/NO2005/000090

(22) International Filing Date: 14 March 2005 (14.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20041205 22 March 2004 (22.03.2004) NO

(71) Applicant (for all designated States except US): NORSK
HYDRO ASA [NO/NO]; N-0240 Oslo (NO).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PEDERSEN,
Steinar [NO/NO]; Mindåstunet 7, N-3712 Skien (NO).
LETH-OLSEN, Kari-Anne [NO/NO]; Frognerlia 23,
N-3715 Skien (NO). PAULSEN, Øystein [NO/NO];
Furulund Terrasse 11, N-3950 Brevik (NO).

(74) Agent: JOHNSEN, Venche, Høines; Patent and Trade-
mark Department, Hydro Aluminium AS, N-0240 Oslo
(NO).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: STORAGE STABLE POLYMER-OLIGOMER PARTICLES AND THEIR USE IN SEED POLYMERISATION

(57) Abstract: Storage stable polymer-oligomer particles with a high swelling capacity are produced by means of two-stage seed polymerisation in which the mole ratio between initiator and monomer is in the range from 0.07:1 to 0.01:1. These particles are used to produce polymer particles with a narrow size distribution by seed polymerisation.

WO 2005/090413 A1